

THE ROLE OF AGRICULTURAL PRACTICES ON DEVELOPMENT OF ANTIMICROBIAL RESISTANT MICROBES AFFECTING HUMAN HEALTH

Monday, June 6 2022
10:00 AM – 2:00 PM ET
Virtual

Commented [BC1]: From Tom: I might change the title to restrict to fungi, otherwise it may be too broad and we would hear more about bacteria.

The role of agricultural practices on development of antimicrobial resistant fungi affecting human health or something like that

Current state of antifungal use in crops

XX AM Welcome Remarks, Workshop Overview & Goals

XX AM Opening address

Global Perspectives of Antifungals in Agriculture

XX AM Antifungal use and crop production

- The need for azoles in some crop production systems

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- Use and surveillance

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- High-Income Countries
- Middle-Income Countries
- Low-Income Countries

- The need for azoles in some crop production systems

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XX AM Global Regulations on Antifungals

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- Suggested speaker: Paul Vincelli

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XX AM Economics of Antifungal Use

- Fungicide application and for plant health and yield
 - Suggested speakers: Kiersten Wise, Daren Mueller
- Food safety
 - Suggested speaker: Pierce Paul, perhaps on need for triazoles to manage Fusarium head blight – a big problem in wheat

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XX AM Global Regulations on Antifungals

- * Suggested speaker/participant: Paul Vincelli

XX AM **Discussion**

XX AM **Wrap-up and Adjourn**

Monday, June 13 2022
~~xx~~ 10:00 AM – ~~xx~~ 2:00 PM ET
Virtual

Pathology of Antifungals- Effects on Humans and the Environment

XX AM **Welcome Remarks, Review of Day 1**

XX AM **Plant Pathology and Antifungal Resistance**

- * Genetics and mechanisms of antifungal resistance
- * Current evidence base associating environmental fungi and antifungal resistance
 - o Aspergillus spp. (with focus on A. fumigatus?)
 - o Candida spp. (with focus on C. auris?)

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XX AM **Antifungal Resistance and the Environment**

- Practices that influence AMR in crop production environments
- Antifungal alternatives: Integrative Disease Management

XX AM **AMR and Human Health**

- * Disease burden and antifungal arsenal

XX AM **Discussion**

XX **Summary, Adjourn**

Monday, June 27 2022
xx – xx ET
Hybrid

AMR surveillance and mitigation

XX AM **Welcome to in-person participants**

XX AM **In-person event (Poster Session, Networking, Breakfast, etc)**

XX AM **Welcome virtual attendees; Review of workshop thus far**

XX AM **State of global AMR surveillance and lessons from antibiotics use and resistance**

- LMIC perspectives
- Data landscape for AMR
- Knowledge gaps

XX **Innovations in AMR Surveillance**

- Addressing knowledge and policy gaps
- Innovation in data collection/technology/tools for surveillance

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Innovations in AMR mitigation

- Innovation in data collection/technology/tools for mitigation
- Policy measures

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Breakout session

- Priority action items for:
 - Technology and Tools
 - Policy
 - Mitigation
 - Surveillance
 - Research Gaps

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Discussion

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Summary of Workshop, Adjourn